Contribution ID: **85** Type: **oral presentation**

Integration of the ATLAS Tag Database with Data Management and Analysis Components

Monday 3 September 2007 17:50 (20 minutes)

The ATLAS Tag Database is an event-level metadata system, designed to allow efficient identification and selection of interesting events for user analysis. By making first-level cuts using queries on a relational database, the size of an analysis input sample could be greatly reduced and thus the time taken for the analysis reduced. Deployment of such a Tag database is underway, but to be most useful it needs to be integrated with the distributed data management (DDM) and distributed analysis (DA) components. This means addressing the issue that the DDM system at ATLAS groups files into datasets for scalability and usability, whereas the Tag database points to events in files. It also means setting up a system which could prepare a list of input events and use both the DDM and DA systems to run a set of jobs. The ATLAS Tag Navigator Tool (TNT) has been developed to address these issues in an integrated way and provide a tool that the average physicist can use. Here, the current status of this work is presented and areas of future work are highlighted.

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Session Classification: Software components, tools and databases

Track Classification: Software components, tools and databases